



530230

Facility is in the Great Lakes Basin

A. SPCC FIELD SHEET

(To be completed if SPCC Regulation is applicable to Facility - See 40 CFR 112.1)

1a. NAME OF FACILITY Commonwealth Edison - Joliet Station No.9		1b. TYPE OF FACILITY Electric Generating Station
1c. FACILITY LOCATION Patterson Road, 1 mile west of Brandon Road; Joliet, Illinois 60436		
2a. NAME OF OWNER AND/OR OPERATOR RESPONSIBLE FOR FACILITY Jack Kowalczyk, Plant Manager		2b. TELEPHONE NUMBER 815-722-8900
2c. MAILING ADDRESS Patterson Road, Joliet, Illinois 60436		
3. TYPES OF OIL STORED AND CAPACITY OF ABOVE GROUND AND BURIED STORAGE See "SPCC Plans for Joliet Station 9" for listing of oils stored and capacities. Total capacity at the Commonwealth Edison - Joliet Station 9 is 1,452,864 gallons with the largest single tank capacity being 770,000 gallons.		
4. IS A CERTIFIED SPCC PLAN AVAILABLE FOR INSPECTION? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		5. DATE OF INSPECTION July 2, 1993
6. NAME AND REGISTRATION NUMBER OF CERTIFYING ENGINEER <input type="checkbox"/> NOT AVAILABLE Thomas E. Henning, Illinois registration number 62-25520		7. DATE SPCC PLAN WAS CERTIFIED <input type="checkbox"/> NOT AVAILABLE April 16, 1993
8. IS THE SPCC PLAN FULLY IMPLEMENTED? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NOT APPLICABLE		
9. NAME OF WATER BODY THAT POTENTIAL SPILL COULD ENTER: OR IF UNNAMED TRIBUTARY, THEN FIRST WATERBODY DOWNSTREAM Des Plaines River		
10. COMMENTS On July 2, 1993 the inspectors met with Commonwealth Edison representatives Elsie Briette, David Radziewicz, and Stan Hlady. E. Briette and S. Hlady escorted the inspectors on a tour of the #9 generating plant. Before the tour of the facility the inspectors provided Commonwealth Edison representatives with an information packet on SPCC regulations as well as OPA 90 proposed regulations on Facility Response Plans. The facility representatives were aware of the SPCC regulations according to 40 CFR 112. It should be noted that maps of the facility with location of oil tanks, grading, and dike dimensions is available with the original SPCC plan located at the Joliet Station No. 9 plant. The maps were too large to be photocopied at the time.		
11a. SPCC NO.	11b. CASE NO.	11c. NPDES NO. <input type="checkbox"/> NOT APPLICABLE IL0002216
12a. INSPECTOR (sign) <i>Karen Rydzewski</i>		12b. DATE August 3, 1993
12c. INSPECTOR (print) Karen Rydzewski and Michael Kulikowski, Ecology & Environment, Inc., U.S. EPA Technical Assistance Team		

B. SPCC INSPECTION SUMMARY SHEET

SPCC NO.		CASE NO.		DATE OF INSPECTION July 2, 1993	
NAME OF INSPECTOR (signature) <i>Karen Rydzewski</i>				DATE OF DOCUMENTATION REPORT August 3, 1993	
NAME OF INSPECTOR (print) Karen Rydzewski & Michael Kulikowski, Ecology & Environment, Inc., U.S. EPA TAT				NPDES NO. IL0002216	
1. FACILITY					
a. COMPANY		Commonwealth Edison			
ADDRESS Patterson Road				TELEPHONE 815-722-8900	
CITY Joliet		STATE Illinois		ZIP CODE 60436	
FACILITY NAME Joliet Station No. 9					
b. FACILITY LOCATION		Patterson Road, 1 mile west of Brandon Road; Joliet, Illinois 60436			
PARENT CORPORATION Commonwealth Edison					
ADDRESS One First National Plaza, 10 South Dearborn; 35FNM					
CITY Chicago		STATE Illinois		ZIP CODE 60603	
c. WATER BODY PROTECTED		Des Plaines River			
2. PURPOSE					
INITIATION: <input checked="" type="checkbox"/> ROUTINE SURVEILLANCE <input type="checkbox"/> COAST GUARD INFORMATION <input type="checkbox"/> SPILL REPORT <input type="checkbox"/> CITIZEN COMPLAINT <input type="checkbox"/> OTHER (specify)					
TYPE: <input type="checkbox"/> PLAN PREPARATION <input checked="" type="checkbox"/> PLAN IMPLEMENTATION <input type="checkbox"/> FOLLOW-UP <input type="checkbox"/> PLAN AMENDMENT					
3. INSPECTION					
INDIVIDUAL CONTACTED Elsie Briette, 815-722-8900 ext.3582				TITLE Compliance Engineer	
INDIVIDUAL CONTACTED Stan Hlady, 312-394-8706				TITLE Sr. Engineer, Env. Services	
NOTIFICATION Elsie Briette					

B. SPCC INSPECTION SUMMARY SHEET

4. FINDINGS

SOURCE IN APPARENT COMPLIANCE WITH SPCC REQUIREMENTS:

☒ YES

- ☒ HAVE ADEQUATE PLAN
- ☐ NOT SUBJECT TO REGULATIONS
 - ☐ INSUFFICIENT STORAGE
 - ☐ NO REASONABLE SPILL EXPECTATION
- ☒ PLAN FULLY IMPLEMENTED
- ☐ NEW FACILITY OPERATIONAL FOR LESS THAN 6 MONTHS

☐ NO

- ☐ NO PLAN
- ☐ PLAN NOT PROPERLY CERTIFIED
- ☐ PLAN DOES NOT HAVE MANAGEMENT APPROVAL
- ☐ PLAN NOT MAINTAINED AT FACILITY MANNED 8 HOURS/DAY
- ☐ INADEQUATE PLAN (detailed SPCC plan review attached)
- ☐ PLAN NOT FULLY IMPLEMENTED
- ☐ PLAN NOT REVIEWED WITHIN 3 YEARS

☐ OTHER

5. ATTACHMENTS

(None required if facility is in apparent compliance)

NONE ATTACHED ALREADY ON FILE

*Detailed Observations	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
*Photographs	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Slides	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Map	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
*Field Drawing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
*Comments	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Telephone Conversations	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
*SPCC Plan	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

*ALL REQUIRED IF FACILITY IS NOT IN APPARENT COMPLIANCE.
 If photos not permitted, check "NONE" and explain. Add
 "SPCC Plan to List of Attachments when appropriate.

CALCULATION OF VOLUME OF SECONDARY CONTAINMENT

Name of Facility: Commonwealth Edison - Joliet Station No. 9

	Area:	1	2	3	4
Volume of Largest Tank (gal):		<u>770,000</u>	<u> </u>	<u> </u>	<u> </u>

Dike Measurements:	Area:	1	2	3	4
Height:		<u>7.6 ft</u>	<u> </u>	<u> </u>	<u> </u>
Length:		<u>527 ft*</u>	<u> </u>	<u> </u>	<u> </u>
Width:		<u> </u>	<u> </u>	<u> </u>	<u> </u>

* 527 ft represents circumference of dike.

$$\text{Volume}_{\text{circle}} (\text{gal}) = (\pi r^2 h) \times 7.48 \text{ gal/ft}^3$$

$$\text{Circumference}_{\text{circle}} (C) = 2\pi r \quad r = C/2\pi$$

$$r = 527 \text{ ft} / 2\pi = 83.87 \text{ ft}$$

$$\text{Volume} = (\pi) (83.87 \text{ ft})^2 (7.6 \text{ ft}) \times 7.48 \text{ gal/ft}^3$$

$$\text{Volume} = 167,948.74 \text{ ft}^3 \times 7.48 \text{ gal/ft}^3$$

$$\text{Volume} = 1,242,820.68 \text{ gal}$$

Total Volume Capacity of dike is 1,242,821 gal.

$$\text{Volume of the largest tank} = 770,000 \text{ gal}$$

$$\% \text{ Capacity of dike} = 1,242,821 \text{ gal} / 770,000 \text{ gal} \times 100$$

$$\% \text{ Capacity of dike} = 161\%$$

C. DETAILED SPCC DOCUMENTATION**FACILITY**

Commonwealth Edison - Joliet Station No. 9

DATE OF INSPECTION

July 2, 1993

1. FACILITY DESCRIPTION**1a. TYPE OF BUSINESS/OPERATION**

Electric Generating Plant

1b. FACILITY OIL STORAGE

See "SPCC Plans for Joliet Station 9" for listing of oils stored and capacities. Total capacity at the Commonwealth Edison - Joliet Station 9 is 1,452,864 gallons with the largest single tank capacity being 770,000 gallons.

1c. PREVENTION MEASURES PROVIDED

Commonwealth Edison provides a number of preventive measures at the Joliet Station No. 9 plant. Among these measures are secondary containment, emergency spill equipment, security, employee training, and tank/transformer inspections.

The station is equipped with appropriate containment and diversionary structures to prevent accidental oil spills from reaching the Des Plaines River. This has been made possible by the construction of two catch basins, the Roof and Yard Runoff Basin which has a capacity of 2,500,000 gallons and the Coal Pile Runoff Basin with a capacity of 1,250,000 gallons. All roof and floor drains from the main plant and the Crib House are discharged into the Roof and Yard Basin. Runoff from the yard in the near perimeter of the plant has also been routed into this basin. Any accidental spills that might occur inside or outside the plant will ultimately be detected as surface oil in the basin. The basin's contents are passed through a corrugated-plate oil separator before discharge into the river. A recirculation line is provided to recycle the effluent back to the basin if it does not meet effluent standards. Oil collected by the separator is stored in an adjacent 7500 gallon storage tank. In the event of an oil spill reaching the basin which is deemed too large to be handled by the oil separator, the oil will be skimmed off and disposed of properly off-site by a special waste permitted hauler.

Oil spills which might occur in the switchyard or the peaking-units area will, if large enough, drain into the Coal Pile Runoff Basin. There are trenches and curbing in these areas to guide the flow into the basin. Water which collects in the basin is designed to be processed through a coalescer prior to discharge into the river. Recirculation of the coalescer effluent is also available for use during startups or in any occasion in which the effluent is unsuitable for discharge. However, under normal operation the runoff collected in the basin is not sufficient in volume to be discharged to the Lincoln Quarry. If any oil is collected it can be stored in an adjacent 500 gallon waste oil storage tank.

Both basins are inspected each shift, three times per day for evidence of oil spills in addition to monthly visual inspections of each storage facility under the jurisdiction of Joliet #9. The facility also holds annual training on the proper operation of the equipment to prevent accidental oil discharges and the proper containment and cleanup of oil spills.

1d. APPEARANCE OF FACILITY (housekeeping)

During the July 2, 1993 inspection at the Commonwealth Edison - Joliet Station No. 9 plant, the inspectors performed a reconnaissance of the plant. All oil storage areas were inspected as well as the wastewater treatment plant and emergency spill equipment. All areas of oil storage were in good to excellent condition. All tanks were diked and all transformers had a catch basin around them. One area was observed as having stained soil. This area of stained soil was observed under a spigot sampler on one of the transformer (See Section C-7, Photographs). All drum storage was contained within a curbed room. The floor of the room had no drains. Some visual oil stains were evident however the room was kept neat and no fresh spills or puddles were observed (See Section C-7).

1e. PAST SPILL HISTORY

Two spill events have occurred at the Commonwealth Edison - Joliet Station No. 9. According to the SPCC plan the first spill event occurred on July 12, 1993. Approximately 30 gallons of turbine oil had leaked from a High Pressure Oil Pump. 25 gallons of the 30 gallons released was recovered in a half barrel. The remaining 5 gallons had drained to the Unit 5 Seal Well. Oil absorbent booms were placed across the Unit 5 discharge. The Unit 5 Seal Well system was then flushed and the remaining 5 gallons of oil was recovered by the booms and with absorbent cloth.

The second spill event occurred on May 24, 1977. Lube oil was seen discharging into the Des Plaines River from the Commonwealth Edison - Joliet Station No. 9's turbine water cooling system outfall causing an oil film on the river surface. The cause of the discharge was due to a valve being left slightly open on an oil storage tank while filtering oil from one tank to another and the tank overflowed discharging oil into the water cooling system flume, which flowed into the river. Commonwealth Edison contained the oil with a boom and utilized absorbents and a vacuum truck to remove the oil from the river. The flume was flushed out about four times.

According to facility representatives, the May 24, 1977 spill was the last reportable spill to occur at the Commonwealth Edison - Joliet Station No. 9 plant.

C. DETAILED SPCC DOCUMENTATION

2. RECEIVING WATER (should spill occur)

2a. NAME AND/OR DESCRIPTION

Des Plaines River

- ☒ Perennial ☐ Intermittent
- ☒ Water present at time of inspection
- ☐ Inspector traced discharge to receiving water
- ☐ Inspector traced apparent drainage path to receiving water
- ☒ Receiving water identified by company representative
- ☒ Receiving water identified from topo map
- ☐ Receiving water identified by other means (specify):

2b. PROBABLE FLOW PATH TO RECEIVING WATER

Probable flow path to the Des Plaines River would be by natural drainage or by accidental discharge from the wastewater treatment facility.

2c. HOURS FACILITY IS MANNED

The Commonwealth Edison facility is manned 24 hours per day 7 days a week by security personnel and employees.

C. DETAILED SPCC DOCUMENTATION

3. COMMENTS

See Section A-10. Comments

C. DETAILED SPCC DOCUMENTATION

4. SPCC PLAN REVIEW

A review of the Commonwealth Edison - Joliet Station No.9 plant's SPCC plan revealed that the plan complies with the regulations of 40 CFR 112. More specifically the plan includes the following:

1. The plan has been certified by a registered engineer.
2. The plan has management approval.
3. The plan states the size and contents of each tank.
4. The plan addresses containment, control measures and countermeasures.
5. The plan states emergency contacts and numbers.
6. The plan addresses inventory and inspection records.
7. The plan addresses personnel training.
8. The plan addresses site security and lighting.

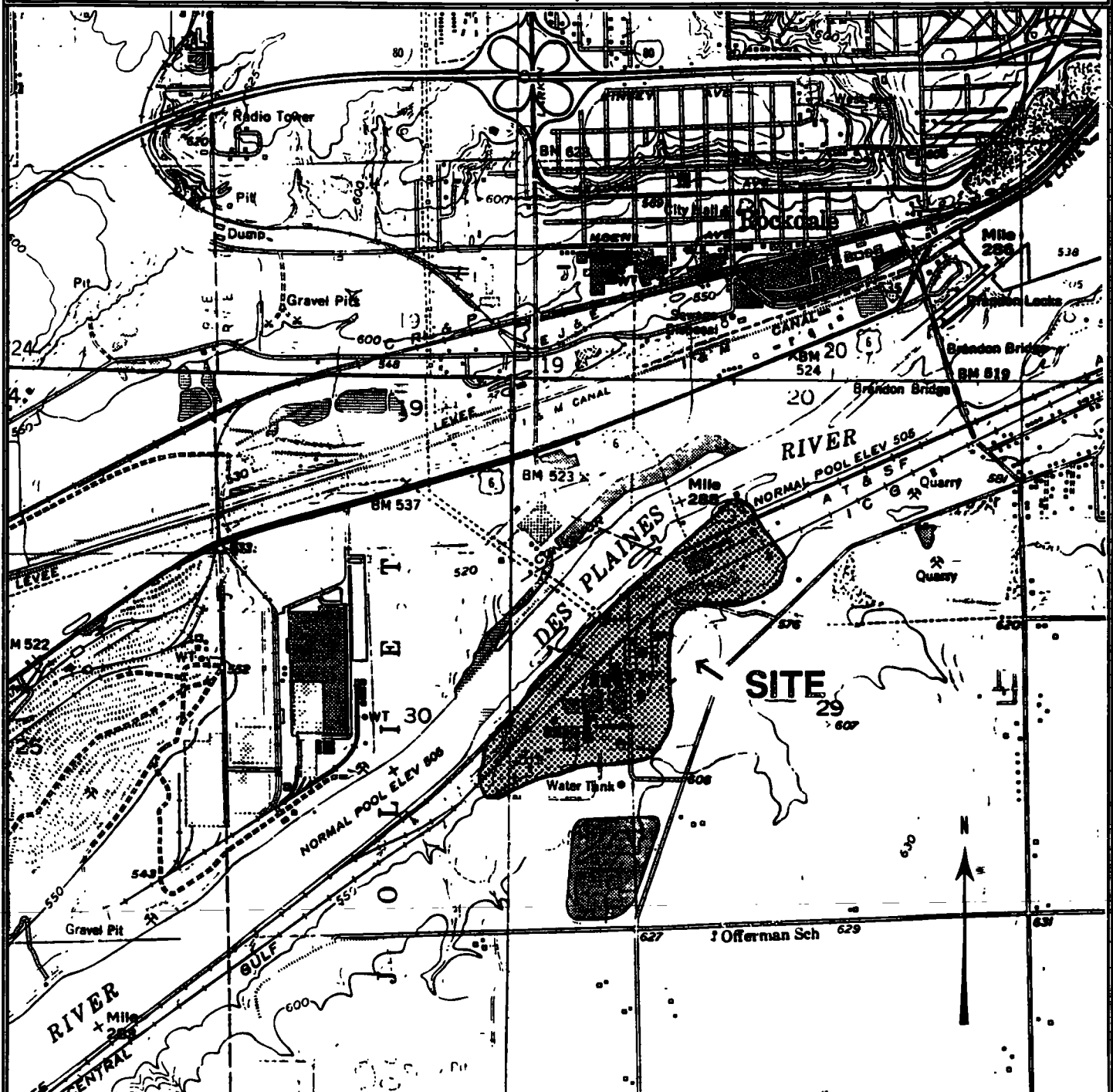
C. DETAILED SPCC DOCUMENTATION

5. SPCC AMENDMENT RECOMMENDATIONS (amendment inspections only)

Not Applicable

C. DETAILED SPCC DOCUMENTATION

6. FIELD DRAWINGS (Attach more sheets if needed, and show north arrow of other orientation)



FACILITY
Commonwealth Edison - Joliet Station No. 9

INSPECTION DATE
July 2, 1993

INSPECTOR
Karen Rydzewski and Michael Kulikowski, Ecology & Environment, Inc., U.S. EPA Technical Assistance Team

C. DETAILED SPCC DOCUMENTATION					
7. PHOTOGRAPHS (Attach more sheets if needed)					
SUBJECT Peaker oil storage tank, capacity is 770,000 gallons.					
FACILITY Commonwealth Edison - Joliet Station No. 9					
PHOTOGRAPHER Karen Rydzewski				WITNESSES Michael Kulikowski	
DATE July 2, 1993	TIME 1245	DIRECTION Northwest	CAMERA Fuji 35mm Discovery	FILM Kodak Gold 200	ATTACHMENTS None



C. DETAILED SPCC DOCUMENTATION					
7. PHOTOGRAPHS (Attach more sheets if needed)					
SUBJECT Transformer with oil stained ground beneath spigots.					
FACILITY Commonwealth Edison - Joliet Station No. 9					
PHOTOGRAPHER Karen Rydzewski				WITNESSES Michael Kulikowski	
DATE July 2, 1993	TIME 1310	DIRECTION South	CAMERA Fuji 35mm Discovery	FILM Kodak Gold 200	ATTACHMENTS None



C. DETAILED SPCC DOCUMENTATION					
7. PHOTOGRAPHS (Attach more sheets if needed)					
SUBJECT Transformer with oil sorbent rock and catch basin which is used as secondary containment.					
FACILITY Commonwealth Edison - Joliet Station No. 9					
PHOTOGRAPHER Karen Rydzewski			WITNESSES Michael Kulikowski		
DATE July 2, 1993	TIME 1311	DIRECTION Southwest	CAMERA Fuji 35mm Discovery	FILM Kodak Gold 200	ATTACHMENTS None



C. DETAILED SPCC DOCUMENTATION					
7. PHOTOGRAPHS (Attach more sheets if needed)					
SUBJECT Wastewater treatment plant holding pond.					
FACILITY Commonwealth Edison - Joliet Station No. 9					
PHOTOGRAPHER Karen Rydzewski			WITNESSES Michael Kulikowski		
DATE July 2, 1993	TIME 1330	DIRECTION Northeast	CAMERA Fuji 35mm Discovery	FILM Kodak Gold 200	ATTACHMENTS None



C. DETAILED SPCC DOCUMENTATION					
7. PHOTOGRAPHS (Attach more sheets if needed)					
SUBJECT Emergency spill equipment kits and boom.					
FACILITY Commonwealth Edison - Joliet Station No. 9					
PHOTOGRAPHER Karen Rydzewski				WITNESSES Michael Kulikowski	
DATE July 2, 1993	TIME 1335	DIRECTION N/A	CAMERA Fuji 35mm Discovery	FILM Kodak Gold 200	ATTACHMENTS None



C. DETAILED SPCC DOCUMENTATION					
7. PHOTOGRAPHS (Attach more sheets if needed)					
SUBJECT Drum storage room. Room was curbed with no drains. Floor was stained but no puddles or fresh spills were evident.					
FACILITY Commonwealth Edison - Joliet Station No. 9					
PHOTOGRAPHER Karen Rydzewski				WITNESSES Michael Kulikowski	
DATE July 2, 1993	TIME 1407	DIRECTION N/A	CAMERA Fuji 35mm Discovery	FILM Kodak Gold 200	ATTACHMENTS None



Elsie Briette
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Commonwealth Edison

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DAVID J. RADZIEWICZ
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Commonwealth Edison

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